This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-5. (Cancelled).

Claim 6. (Previously Presented) A diversity handover control method in a

mobile communication system including a mobile station, a plurality of base stations, and a

center connected to said plurality of base stations, said mobile communication system carrying

out diversity handover in which said mobile station communicates with said plurality of base

stations simultaneously, said diversity handover control method comprising the steps of:

monitoring, at said mobile station, radio condition quality corresponding to a plurality of

branches;

selecting, at said mobile station, one or more addition branch candidates based on the

monitored radio condition quality;

arranging, at said mobile station, said addition branch candidates in order of the

monitored radio condition quality;

notifying, from said mobile station to said center, information on said plurality of

branches including said addition branch candidates, said addition branch candidates being

notified in the arranged order; and

trying, at said center, to establish one or more communicating branches for the diversity

handover by using said notified addition branch candidates in the arranged order.

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Claim 7. (Cancelled).

Claim 8. (Previously Presented) A diversity handover control method as

claimed in claim 6, further comprising the steps of:

selecting, at said mobile station, one or more deletion branch candidates based on the

monitored radio condition quality;

notifying, from said mobile station to said center, information on a plurality of branches

including said one or more deletion branch candidates; and

deleting, at said center, one or more communicating branches which are being used for

the diversity handover by using said notified deletion branch candidates,

wherein each of said plurality of branches comprises a radio branch between said mobile

station and one of said base stations, and a cable branch between one of said base stations and

said center, and

when a communicating branch is deleted, a cable branch of the communicating branch is

deleted after a radio branch of the communicating branch is deleted.

Claim 9. (Previously Presented) A diversity handover control method as

claimed in claim 6, wherein

said plurality of branches include one or more communicating branches,

each of said plurality of branches comprises a radio branch between said mobile station

and one of said base stations, and a cable branch between one of said base stations and said

center, and

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when the sum of the number of communicating branches and the number of addition

branch candidates exceeds the maximum number of radio branches which can be established

simultaneously, said center tries to establish one or more communicating branches for the

diversity handover by using said notified addition branch candidates in the arranged order, up to

the maximum number of cable branches which said center can process simultaneously.

Claim 10. (Previously Presented) A diversity handover control method as

claimed in claim 9, wherein

said plurality of branches include one or more deletion branch candidates,

said diversity handover control method comprises the step of deleting, at said center, one

or more communicating branches which are being used for the diversity handover and

correspond to said deletion branch candidates, and

when the sum of the number of communicating branches not including said deleted

communicating branches and the number of addition branch candidates exceeds the maximum

number of radio branches which can be established simultaneously, said center tries to establish

one or more communicating branches for the diversity handover by using said notified addition

branch candidates in the arranged order, up to the maximum number of cable branches which

said center can process simultaneously.

Claim 11. (Previously Presented) A diversity handover control method in a

mobile communication system including a mobile station, a plurality of base stations, and a

center connected to said plurality of base stations, said mobile communication system carrying

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out diversity handover in which said mobile station communicates with said plurality of base

stations simultaneously, said diversity handover control method comprising the steps of:

monitoring, at said mobile station, radio condition quality corresponding to a plurality of

branches;

selecting, at said mobile station, one or more addition branch candidates based on the

monitored radio condition quality;

obtaining, at said mobile station, a relative value of each of said addition branch

candidates indicative of order of precedence to be used for the diversity handover based on the

monitored radio condition quality of said addition branch candidates;

notifying, from said mobile station to said center, information on said plurality of

branches including said addition branch candidates and their relative values; and

trying, at said center, to establish one or more communicating branches for the diversity

handover by using said notified addition branch candidates in the order indicated by their relative

values.

Claim 12. (Cancelled).

Claim 13. (Previously Presented) A diversity handover control method as

claimed in claim 11, further comprising the steps of:

selecting, at said mobile station, one or more deletion branch candidates based on the

monitored radio condition quality;

notifying, from said mobile station to said center, information on a plurality of branches

including said one or more deletion branch candidates; and

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deleting, at said center, one or more communicating branches which are being used for

the diversity handover by using said notified deletion branch candidates,

wherein each of said plurality of branches comprises a radio branch between said mobile

station and one of said base stations, and a cable branch between one of said base stations and

said center, and

when a communicating branch is deleted, a cable branch of the communicating branch is

deleted after a radio branch of the communicating branch is deleted.

Claim 14. (Previously Presented) A diversity handover control method as

claimed in claim 11, wherein

said plurality of branches include one or more communicating branches,

each of said plurality of branches comprises a radio branch between said mobile station

and one of said base stations, and a cable branch between one of said base stations and said

center, and

when the sum of the number of communicating branches and the number of addition

branch candidates exceeds the maximum number of radio branches which can be established

simultaneously, said center tries to establish one or more communicating branches for the

diversity handover by using said notified addition branch candidates in the order indicated by

their relative values, up to the maximum number of cable branches which said center can process

simultaneously.

Claim 15. (Previously Presented) A diversity handover control method as

claimed in claim 14, wherein

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said plurality of branches include one or more deletion branch candidates,

said diversity handover control method comprises the step of deleting, at said center, one

or more communicating branches which are being used for the diversity handover and

correspond to said deletion branch candidates, and

when the sum of the number of communicating branches not including said deleted

communicating branches and the number of addition branch candidates exceeds the maximum

number of radio branches which can be established simultaneously, said center tries to establish

one or more communicating branches for the diversity handover by using said notified addition

branch candidates in the order indicated by their relative values, up to the maximum number of

cable branches which said center can process simultaneously.

Claim 16. (Previously Presented) A diversity handover control method as

claimed in claim 11, further comprising the steps of:

storing, at said center, one or more notified addition branch candidates which are not

established in said try to establish the communicating branches for the diversity handover;

selecting, at said mobile station, one or more deletion branch candidates based on the

monitored radio condition quality;

autonomously releasing, at said mobile station, communication branches of said deletion

branch candidates; and

notifying, from said mobile station to said center, the release of the communication

branches,

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wherein when said center is notified of the release of the communication branches, said

center tries to establish one or more communicating branches for the diversity handover by using

said stored addition branch candidates in order indicated by their relative values.

Claims 17-24. (Cancelled).